

$-\varepsilon_{\text{average}} = (\beta^2 \varepsilon(ee_{jj}) + 2\beta(1-\beta)\varepsilon(ev_{jj}) + \beta^2 \varepsilon(ee \text{ as } ev))$ for the 2 channels case and

$-\varepsilon_{\text{average}} = (\beta^2 \varepsilon(ee_{jj}) + 2\beta(1-\beta)\varepsilon(ev_{jj}) + (1-\beta)^2 \varepsilon(vv_{jj}) + \beta^2 \varepsilon(ee \text{ as } ev))$ for the three channels case.